

CLAIMS

1. A peptide consisting of any one of the following amino acid sequence (A) to (D).

(A) the amino acid sequence shown by SEQ ID No: 2;

(B) an amino acid sequence wherein one or a few amino acids are deleted, substituted or added in the sequence shown by SEQ ID No: 2, wherein a peptide consisting of the amino acid sequence has a cardioinhibitory activity or hypotensive activity;

(C) an amino acid sequence having 60% or more homology with the amino acid sequence shown by SEQ ID No: 2, wherein a peptide consisting of the amino acid sequence has a cardioinhibitory activity or hypotensive activity.

2. A peptide generated from the following amino acid sequence (A) or (B) as a result of further cleavage or modification by a processing enzyme and having a cardioinhibitory activity or hypotensive activity.

(A) the amino acid sequence shown by SEQ ID No: 2;

(B) an amino acid sequence wherein one or a few amino acids are deleted, substituted or added in the sequence shown by SEQ ID No: 2, wherein a peptide consisting of the amino acid sequence has a cardioinhibitory activity or hypotensive activity.

3. A DNA of any one of the following (A) to (G).

(A) a DNA encoding a peptide consisting of the amino acid sequence shown by SEQ ID No: 2;

(B) a DNA encoding a peptide consisting of an amino acid sequence wherein one or a few amino acids are deleted, substituted, or added in the sequence shown by SEQ ID No: 2, and having a cardioinhibitory activity or hypotensive activity;

(C) a DNA encoding a peptide consisting of an amino acid sequence having 60% or more homology with the amino acid sequence shown by SEQ ID No: 2, and having a cardioinhibitory activity or hypotensive activity;

(D) a DNA consisting of the nucleotide sequence shown by SEQ ID No: 1;

(E) a DNA encoding a peptide consisting of a nucleotide sequence wherein one or a few nucleotides are deleted, substituted or added in the sequence shown by SEQ ID No: 1, and having a cardioinhibitory activity or hypotensive activity;

(F) a DNA that hybridizes with the nucleotide sequence shown by SEQ ID No: 1 under a stringent condition, and encoding a peptide having a cardioinhibitory activity or hypotensive activity.

4. A DNA encoding a peptide generated from the following amino acid sequence (A) or (B) as a result of further cleavage or modification by a processing enzyme and having a cardioinhibitory activity or hypotensive activity:

(A) the amino acid sequence shown by SEQ ID No: 2.

(B) an amino acid sequence wherein one or a few amino acids are deleted, substituted or added in the sequence shown by SEQ ID No: 2, wherein a peptide consisting of the amino

acid sequence has a cardioinhibitory activity or hypotensive activity.

5. A fusion peptide wherein the peptide according to claim 1 or 2 is bound with a marker protein and/or peptide tag.

6. A recombinant vector comprising the DNA according to claim 3, wherein the recombinant vector can express the peptide according to claim 1.

7. A recombinant vector comprising the DNA according to claim 4, wherein the recombinant vector can express the peptide according to claim 2.

8. A transformant wherein the recombinant vector according to claim 6 is introduced, which expresses the peptide according to claim 1.

9. A transformant wherein the recombinant vector according to claim 7 is introduced, which expresses the peptide according to claim 2.

10. An antibody that can recognize specifically the peptide according to claim 1 or 2.

11. The antibody according to claim 10 wherein the antibody is a monoclonal antibody.

12. A method for screening a cardioinhibitory factor or

hypotensive factor, comprising the steps of administering the peptide according to claim 1 or 2 and a test substance to a non-human test animal, and measuring/estimating a level of cardioinhibitory activity or hypotensive activity.

13. A method for screening an inhibitor of cardioinhibitory activity or an inhibitor of hypotensive activity, comprising the steps of administering the peptide according to claim 1 or 2 and a test substance to a non-human test animal, and measuring/estimating a level of cardioinhibitory or hypotensive activity.

14. A cardioinhibitory/hypotensive agent comprising the peptide according to claim 1 or 2 as an active ingredient.

15. A method for preventing/treating diseases which necessitate cardioinhibitory/hypotensive activity, wherein the cardioinhibitory/hypotensive agent according to claim 14 is administered.